

CLAIMS

What is claimed is:

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1. A method implemented with an implantable medical device, comprising:
receiving an initiation signal indicative of initiation of an electrophysiologic
test;

10 disabling a capability of delivering tachyarrhythmia therapy to a chamber
of the heart;

monitoring, while the capability of delivering tachyarrhythmia therapy is
disabled, the heart chamber in response to the electrophysiologic test; and

15 automatically re-enabling the capability of delivering tachyarrhythmia
therapy to ensure availability of tachyarrhythmia therapy after completion or interruption
of the electrophysiologic test.

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2. The method of claim 1, wherein automatically re-enabling further
comprises automatically re-enabling the capability of delivering tachyarrhythmia in
response to a loss of communication between the implantable medical device and an
electrophysiologic tester during or after the electrophysiologic test.

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3. The method of claim 1, wherein automatically re-enabling further
comprises automatically re-enabling the capability of delivering tachyarrhythmia in
response to intermittent communication between the implantable medical device and an
electrophysiologic tester during or after completion or interruption of the
electrophysiologic test.

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4. The method of claim 1, wherein automatically re-enabling further
comprises automatically re-enabling the capability of delivering tachyarrhythmia in
response to degraded communication between the implantable medical device and an

electrophysiologic tester during or after completion or interruption of the electrophysiologic test.

5. The method of claim 1, wherein automatically re-enabling further
comprises automatically re-enabling the capability of delivering tachyarrhythmia in
response to expiration of a first time duration.

6. The method of claim 5, wherein the first time duration ranges between
about 30 seconds and about 1 hour.

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7. The method of claim 5, wherein the first time duration is extended by a
second time duration in response to a time extension signal.

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8. The method of claim 7, wherein the second time duration is shorter than
the first time duration.

9. The method of claim 1, wherein receiving the initiation signal comprises
receiving a manually induced initiation signal.

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10. The method of claim 1, wherein receiving the initiation signal comprises
receiving the initiation signal generated by an electrophysiologic tester implementing an
electrophysiologic test algorithm, the electrophysiologic tester being in communication
with the implantable medical device.

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11. The method of claim 1, wherein the initiation signal comprises a monitor
only signal, and disabling the delivering capability comprises switching modes from a
monitoring with tachyarrhythmia therapy mode to a monitoring only mode.

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12. A method implemented with an implantable medical device, comprising:
receiving an initiation signal indicative of initiation of a cardiac test;

disabling a capability of delivering ventricular tachyarrhythmia therapy to a ventricle of a heart;

5 delivering, while the capability of delivering ventricular tachyarrhythmia therapy is disabled, antitachycardia pacing to an atrium of the heart during the cardiac test;

monitoring the atrium while the capability of delivering ventricular tachyarrhythmia therapy is disabled; and

10 automatically re-enabling the capability of delivering ventricular tachyarrhythmia therapy to ensure availability of ventricular tachyarrhythmia therapy after completion or interruption of the cardiac test.

13. The method of claim 12, wherein automatically re-enabling further comprises automatically re-enabling the capability of delivering ventricular tachyarrhythmia in response to a loss of communication between the implantable medical device and a cardiac tester during or after the cardiac test.

14. The method of claim 12, wherein automatically re-enabling further comprises automatically re-enabling the capability of delivering ventricular tachyarrhythmia in response to intermittent communication between the implantable medical device and a cardiac tester during or after completion or interruption of the cardiac test.

15. The method of claim 12, wherein automatically re-enabling further comprises automatically re-enabling the capability of delivering ventricular tachyarrhythmia in response to degraded communication between the implantable medical device and a cardiac tester during or after completion or interruption of the cardiac test.

16. The method of claim 12, wherein automatically re-enabling further comprises automatically re-enabling the capability of delivering ventricular tachyarrhythmia in response to expiration of a first time duration.

5 17. The method of claim 16, wherein the first time duration ranges between about 30 second and about 1 hour.

18. The method of claim 16, wherein the first time duration is extended by a second time duration in response to a time extension signal.

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19. The method of claim 18, wherein the second time duration is shorter than the first time duration.

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15 20. The method of claim 12, wherein receiving the initiation signal comprises receiving a manually induced initiation signal.

21. The method of claim 12, wherein receiving the initiation signal comprises receiving the initiation signal from a cardiac tester in communication with the implantable medical device.

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22. The method of claim 12, wherein the initiation signal comprises a monitor only signal, and disabling the delivering capability comprises switching modes from a monitoring with tachyarrhythmia therapy mode to a monitoring only mode.

23. A body implantable system, comprising:
a transceiver for maintaining a telemetry link with an external cardiac
tester;
a lead system comprising atrial and ventricular electrodes;
5 a detector, coupled to the lead system, that detects atrial and ventricular
activity;
a tachyarrhythmia therapy delivery unit and
a controller, the controller, in response to receiving an initiation signal
indicative of initiation of a cardiac test, disabling a capability of the tachyarrhythmia
10 therapy delivery unit to deliver tachyarrhythmia therapy to a chamber of the heart, the
controller automatically re-enabling the capability of the tachyarrhythmia therapy
delivery unit to deliver tachyarrhythmia therapy to ensure availability of tachyarrhythmia
therapy after completion or interruption of the cardiac test.
- 15 24. The system of claim 23, further comprising a signal integrity circuit
coupled to the transceiver and the controller, the signal integrity circuit producing a loss
of link signal in response to detecting loss of the telemetry link with the external cardiac
tester during the cardiac test, the controller automatically re-enabling the capability of
the tachyarrhythmia therapy delivery unit to deliver tachyarrhythmia therapy in response
20 to the loss of link signal.
- 25 25. The system of claim 23, further comprising a signal integrity circuit
coupled to the transceiver and the controller, the signal integrity circuit producing an
intermittent link signal in response to detecting intermittency of the telemetry link with
the external cardiac tester during the cardiac test, the controller automatically re-
enabling the capability of the tachyarrhythmia therapy delivery unit to deliver
tachyarrhythmia therapy in response to the intermittent link signal.
- 30 26. The system of claim 23, further comprising a signal integrity circuit
coupled to the transceiver and the controller, the signal integrity circuit producing a

degraded link signal in response to detecting degradation of the telemetry link with the external cardiac tester during the cardiac test, the controller automatically re-enabling the capability of the tachyarrhythmia therapy delivery unit to deliver tachyarrhythmia therapy in response to the degraded link signal.

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27. The system of claim 23, further comprising a timer circuit coupled to the controller, the timer circuit producing a timeout signal in response to expiration of a first time duration, the controller automatically re-enabling the capability of the tachyarrhythmia therapy delivery unit to deliver tachyarrhythmia therapy in response to 10 the timeout signal.

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28. The system of claim 27, wherein the first time duration ranges between about 30 seconds and about 1 hour.

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29. The system of claim 27, wherein the first time duration is extended by a second time duration in response to a time extension signal received from the cardiac tester by the transceiver.

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30. The system of claim 29, wherein the second time duration is shorter than the first time duration.

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31. The system of claim 23, wherein the body implantable system further comprises a mode switch, the initiation signal being generated by the mode switch in response to manual or automatic switching of the mode switch from a Monitor with Therapy mode to a Monitor Only mode.

32. The method of claim 1, wherein receiving the initiation signal comprises receiving the initiation signal from a cardiac tester in communication with the body implantable system.